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Subject: Newbie Question about network..

Posted by [Lord Daedra](#) on Thu, 04 Feb 2010 08:02:07 GMT

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Hello!

Host OS: Centos 5.4, VPS OS: Ubuntu 9.10.

I can't ping google.com on my VPS.

I used default Ubuntu template from this site, google nameserver 8.8.8.8 for VPS and ip 174.142.167.217.

```
vzctl create 217 --ostemplate ubuntu-9.10-x86 --ipadd 174.142.167.217 --hostname database.entropia.us --name database
```

```
vzctl set 217 --onboot yes --nameserver 8.8.8.8 --save
```

I need install public VEs (with their own IP addresses) so I'm look at [http://wiki.openvz.org/Common\\_Networking\\_HOWTOs](http://wiki.openvz.org/Common_Networking_HOWTOs) and use this command:  
[host-node]# echo 1 > /proc/sys/net/ipv4/ip\_forward

ifconfig on my host system:

Quote:[root@cl-t127-072cl ~]# ifconfig

```
eth0    Link encap:Ethernet  HWaddr 00:30:48:B0:BA:D8
        inet addr:67.205.67.10  Bcast:67.205.67.31  Mask:255.255.255.224
        inet6 addr: fe80::230:48ff:feb0:bad8/64 Scope:Link
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        RX packets:339100 errors:0 dropped:0 overruns:0 frame:0
        TX packets:178932 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:10
        RX bytes:492718192 (469.8 MiB)  TX bytes:12945821 (12.3 MiB)
        Memory:d0100000-d0120000
```

```
eth0:1  Link encap:Ethernet  HWaddr 00:30:48:B0:BA:D8
        inet addr:174.142.167.217  Bcast:174.142.167.223  Mask:255.255.255.248
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        Memory:d0100000-d0120000
```

```
eth0:2  Link encap:Ethernet  HWaddr 00:30:48:B0:BA:D8
        inet addr:174.142.167.218  Bcast:174.142.167.223  Mask:255.255.255.248
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        Memory:d0100000-d0120000
```

```
eth0:3  Link encap:Ethernet  HWaddr 00:30:48:B0:BA:D8
        inet addr:174.142.167.219  Bcast:174.142.167.223  Mask:255.255.255.248
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
```

Memory:d0100000-d0120000

eth0:4 Link encap:Ethernet HWaddr 00:30:48:B0:BA:D8  
inet addr:174.142.167.220 Bcast:174.142.167.223 Mask:255.255.255.248  
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1  
Memory:d0100000-d0120000

eth0:5 Link encap:Ethernet HWaddr 00:30:48:B0:BA:D8  
inet addr:174.142.167.221 Bcast:174.142.167.223 Mask:255.255.255.248  
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1  
Memory:d0100000-d0120000

eth0:6 Link encap:Ethernet HWaddr 00:30:48:B0:BA:D8  
inet addr:174.142.167.222 Bcast:174.142.167.223 Mask:255.255.255.248  
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1  
Memory:d0100000-d0120000

lo Link encap:Local Loopback  
inet addr:127.0.0.1 Mask:255.0.0.0  
inet6 addr: ::1/128 Scope:Host  
UP LOOPBACK RUNNING MTU:16436 Metric:1  
RX packets:6 errors:0 dropped:0 overruns:0 frame:0  
TX packets:6 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:0  
RX bytes:504 (504.0 b) TX bytes:504 (504.0 b)

venet0 Link encap:UNSPEC HWaddr 00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00-00  
inet6 addr: fe80::1/128 Scope:Link  
UP BROADCAST POINTOPOINT RUNNING NOARP MTU:1500 Metric:1  
RX packets:0 errors:0 dropped:0 overruns:0 frame:0  
TX packets:0 errors:0 dropped:0 overruns:0 carrier:0  
collisions:0 txqueuelen:0  
RX bytes:0 (0.0 b) TX bytes:0 (0.0 b)

next i start and enter to my VPS and see ifconfig command blank result..

Info from datacenter:

Primary IP address : 67.205.67.10  
Primary IP mask : 255.255.255.224  
Gateway : 67.205.67.1

Usable secondary addresses: 174.142.167.217-222  
Mask : 255.255.255.248

So also I replaced all 255.255.255.255 in /etc/vz/dists/scripts/debian-add\_ip.sh to  
255.255.255.248 in debian add ip script...

P.S.

```
[root@cl-t127-072cl ~]# ip rule list
```

```
0: from all lookup 255
```

```
32766: from all lookup main
```

```
32767: from all lookup default
```

```
[root@cl-t127-072cl ~]# iptables -t nat -L && iptables -t filter -L && iptables -t mangle -L
```

```
Chain PREROUTING (policy ACCEPT)
```

```
target prot opt source destination
```

```
Chain POSTROUTING (policy ACCEPT)
```

```
target prot opt source destination
```

```
Chain OUTPUT (policy ACCEPT)
```

```
target prot opt source destination
```

```
Chain INPUT (policy ACCEPT)
```

```
target prot opt source destination
```

```
Chain FORWARD (policy ACCEPT)
```

```
target prot opt source destination
```

```
Chain OUTPUT (policy ACCEPT)
```

```
target prot opt source destination
```

```
Chain PREROUTING (policy ACCEPT)
```

```
target prot opt source destination
```

```
Chain INPUT (policy ACCEPT)
```

```
target prot opt source destination
```

```
Chain FORWARD (policy ACCEPT)
```

```
target prot opt source destination
```

```
Chain OUTPUT (policy ACCEPT)
```

```
target prot opt source destination
```

```
Chain POSTROUTING (policy ACCEPT)
```

```
target prot opt source destination
```

Please help me, where is my error?

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Subject: Re: Newbie Question about network..

Posted by [Paparaciz](#) on Thu, 04 Feb 2010 09:33:55 GMT

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I think you should also define gw for yours 174.142.167.xxx range

as I understand you configured to use veth, so for each VE you have to add gw

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Subject: Re: Newbie Question about network..

Posted by [Lord Daedra](#) on Thu, 04 Feb 2010 13:33:04 GMT

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I dont know what is better veth or venet.. what is more easy to install?

Ok, venet..

1. I need run

a) [host-node]# iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE

or

b) [host-node]# iptables -t nat -A POSTROUTING -o eth0:1 -j MASQUERADE

[host-node]# iptables -t nat -A POSTROUTING -o eth0:2 -j MASQUERADE

[host-node]# iptables -t nat -A POSTROUTING -o eth0:3 -j MASQUERADE

[host-node]# iptables -t nat -A POSTROUTING -o eth0:4 -j MASQUERADE

[host-node]# iptables -t nat -A POSTROUTING -o eth0:5 -j MASQUERADE

[host-node]# iptables -t nat -A POSTROUTING -o eth0:6 -j MASQUERADE

(for every IP)

?

I tried a) and reboot after - but it doesnt help for me

(Its from guide [http://wiki.openvz.org/Common\\_Networking\\_HOWTOs](http://wiki.openvz.org/Common_Networking_HOWTOs) )

2. Here [http://forum.openvz.org/index.php?t=msg&&th=7188&amp ;amp ;amp ;goto=34847#msg\\_34847](http://forum.openvz.org/index.php?t=msg&&th=7188&amp ;amp ;amp ;goto=34847#msg_34847) I find this

```
route add default gw 192.168.1.1 dev eth0
```

I tried run this command in VPS but get error

```
root@database:/# route add default gw 67.205.67.1 dev eth0
```

```
SIOCADDRT: No such device
```

```
root@database:/# ifconfig
```

```
root@database:/#
```

Yes, I see what no devices but why they did not installed when I used "set 217 --ipadd 174.142.167.217 --save" and how to install them?

ifconfig return blank result but I dont know how to fix this..

```
root@database:/# cat /etc/network/interfaces
```

```
# This configuration file is auto-generated.
```

# WARNING: Do not edit this file, otherwise your changes will be lost.  
# Please edit template /etc/network/interfaces.template instead.

```
auto lo
iface lo inet loopback
address 127.0.0.1
netmask 255.0.0.0
broadcast 127.255.255.255
up ip route replace 127.0.0.0/8 dev lo
```

# Auto generated interfaces

```
auto lo
iface lo inet loopback
```

```
auto venet0
iface venet0 inet static
address 127.0.0.1
netmask 255.255.255.248
broadcast 67.205.67.1
up route add -net 192.0.2.1 netmask 255.255.255.248 dev venet0
up route add default gw 192.0.2.1
auto venet0:0
iface venet0:0 inet static
address 174.142.167.217
netmask 255.255.255.248
broadcast 67.205.67.1
```

May be I need change smth in /etc/network/interfaces.template ?

Please tell me any easy way how to setup Internet connecton for my VPSes

P.S. On node:

```
[root@cl-t127-072cl ~]# route -n
```

Kernel IP routing table

Destination	Gateway	Genmask	Flags	Metric	Ref	Use	Iface
174.142.167.219	0.0.0.0	255.255.255.255	UH	0	0	0	venet0
174.142.167.218	0.0.0.0	255.255.255.255	UH	0	0	0	venet0
174.142.167.217	0.0.0.0	255.255.255.255	UH	0	0	0	venet0
174.142.167.216	0.0.0.0	255.255.255.248	U	0	0	0	eth0
67.205.67.0	0.0.0.0	255.255.255.224	U	0	0	0	eth0
169.254.0.0	0.0.0.0	255.255.0.0	U	0	0	0	eth0
0.0.0.0	67.205.67.1	0.0.0.0	UG	0	0	0	eth0

(3 VPSes)

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Subject: Re: Newbie Question about network..  
Posted by [Paparaciz](#) on Thu, 04 Feb 2010 14:04:54 GMT  
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you wroted that:  
Usable secondary addresses: 174.142.167.217-222  
Mask : 255.255.255.248

who gave you this ip addresses?  
they are not public, they are private ip addresses  
[http://en.wikipedia.org/wiki/Private\\_network#Private\\_IPv4\\_address\\_spaces](http://en.wikipedia.org/wiki/Private_network#Private_IPv4_address_spaces)

as i see you have only one public ip address

so if you want to have internet inside VE do following config:  
remove all the eth aliases (eth0:0 - eth0:x), leave only eth0

add private ip address to VE (for example 174.142.167.217)  
then do

```
echo 1 > /proc/sys/net/ipv4/ip_forward  
iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE
```

that's all  
if you want to have VE with public ip addresses ask them from your provider and assign them to VE.

if you want assign services for your VE and you have only one public ip just forward port to you VE in HN.

further reading:  
[http://wiki.openvz.org/Using\\_NAT\\_for\\_container\\_with\\_private\\_IPs](http://wiki.openvz.org/Using_NAT_for_container_with_private_IPs)  
[http://wiki.openvz.org/Common\\_Networking\\_HOWTOs](http://wiki.openvz.org/Common_Networking_HOWTOs)  
<http://wiki.openvz.org/Containers/Networking>

and of course read the  
<http://download.openvz.org/doc/OpenVZ-Users-Guide.pdf>

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Subject: Re: Newbie Question about network..  
Posted by [Lord Daedra](#) on Thu, 04 Feb 2010 15:35:20 GMT  
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I got them in my datacenter (iWeb)

They are all public..

<http://ws.arin.net/whois/?queryinput=174.142.167.217>

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Subject: Re: Newbie Question about network..  
Posted by [Paparaciz](#) on Thu, 04 Feb 2010 17:30:12 GMT  
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yes, sorry.  
but that doesn't change much...  
as I see you should follow this guide  
[http://wiki.openvz.org/VEs\\_and\\_HNs\\_in\\_different\\_subnets](http://wiki.openvz.org/VEs_and_HNs_in_different_subnets)

but maybe you can try another way  
do as i said in previous message and add to your /etc/sysctl.conf  
net.ipv4.conf.eth0.proxy\_arp = 1  
and then  
sysctl -p  
to apply changes  
then you should get to the internet from VE

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Subject: Re: Newbie Question about network..  
Posted by [Lord Daedra](#) on Fri, 05 Feb 2010 07:18:44 GMT  
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> remove all the eth aliases (eth0:0 - eth0:x), leave only eth0

Thanks, its solve my problem. (I used commands from this page  
<http://www.cyberciti.biz/faq/linux-command-to-remove-virtual-interfaces-or-network-aliases/> )

Yesterday I tested on ubuntu cache tpl from this site, its bugged.. So network will not work and with correct settings.

I recommend use this tpl for ubuntu  
<http://blog.bodhizazen.net/linux/download-ubuntu-9-10-openvz-templates/comment-page-1/>

P.S.

I used iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE command but I think , I need not it. How to cancel the effect of this command? (Do I need it?)

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Subject: Re: Newbie Question about network..  
Posted by [teekien](#) on Wed, 28 Apr 2010 12:30:57 GMT  
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This is exactly what I had in mind too!

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